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NEWS 20	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS 21	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS 22	FEB 25	USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS EXPRESS	JUNE 27 08	CURRENT WINDOWS VERSION IS V8.3, AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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=> s (FSH or follicle(W)stimulating(W)hormone or gonadotropin or gonadotrophin)
L1 338605 (FSH OR FOLLICLE(W) STIMULATING(W) HORMONE OR GONADOTROPIN OR
GONADOTROPHIN)

=> s 11 and (purify or purification and recombinant)
L2 513 L1 AND (PURIFY OR PURIFICATION AND RECOMBINANT)

=> s 12 and (ION(W) EXChANGE) AND (METAL(W) ION or affinity) AND (HYDROPHOBIC)
L3 5 L2 AND (ION(W) EXCHANGE) AND (METAL(W) ION OR AFFINITY) AND
(HYDROPHOBIC)

≡> dis_ibib_abs_14_1=3

14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 2000-171013 - CA005
DOCUMENT NUMBER: 144:461281
TITLE: Method for purifying human FSH using chromatography
INVENTOR(S): Valax, Pascal; Wenger, Pierre; Stanley, Anne; Delegrange, Lydia; Capponi, Luciano
PATENT ASSIGNEE(S): Ares Trading S.A., Switz.
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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WO 2006051070	A1	20060518	WO 2005-EP55815	20051108
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
AU 2005303818	A1	20060518	AU 2005-303818	20051108
CA 2579131	A1	20060518	CA 2005-2579131	20051108
EP 1809663	A1	20070725	EP 2005-815953	20051108
EP 1809663	B1	20080917		
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
CN 101087805	A	20071212	CN 2005-80037591	20051108
JP 2008519010	T	20080605	JP 2007-539590	20051108
AT 408624	T	20081015	AT 2005-815953	20051108
BR 2005017973	A	20081021	BR 2005-17973	20051108
ES 2312037	T3	20090216	ES 2005-815953	20051108
IN 2007DN01951	A	20070817	IN 2007-DN1951	20070313
US 20080070832	A1	20080320	US 2007-575833	20070322
KR 2007083618	A	20070824	KR 2007-707365	20070330
MX 2007005327	A	20070802	MX 2007-5327	20070503
NO 2007002863	A	20070605	NO 2007-2863	20070605
PRIORITY APPLN. INFO.:			EP 2004-105639	A 20041109
			US 2004-628717P	P 20041117
			WO 2005-EP55815	W 20051108

AB The invention relates to a method for purifying recombinant human FSH or an FSH variant starting from crude FSH, comprising the following steps : 1. dye-affinity chromatog.; 2. hydrophobic interaction chromatog.; and 3. reverse phase chromatog. The method may further comprise an anion-exchange chromatog. step. Compsns. containing the purified FSH for treating fertility disorders are also claimed.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2005:612336 CAPLUS
 DOCUMENT NUMBER: 143:131925
 TITLE: Method for purifying FSH using chromatography
 INVENTOR(S): Rossi, Mara
 PATENT ASSIGNEE(S): Ares Trading S. A., Switz.
 SOURCE: PCT Int. Appl., 48 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005063811	A1	20050714	WO 2004-EP14347	20041216
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG
 AU 2004309040 A1 20050714 AU 2004-309040 20041216
 CA 2544333 A1 20050714 CA 2004-2544333 20041216
 EP 1697412 A1 20060906 EP 2004-803960 20041216
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK,
 BA, HR, IS, YU
 CN 1890265 A 20070103 CN 2004-80036591 20041216
 BR 2004017992 A 20070427 BR 2004-17992 20041216
 JP 2008500273 T 20080110 JP 2006-546007 20041216
 MX 2006005584 A 20060725 MX 2006-5584 20060517
 KR 2006135656 A 20061229 KR 2006-711610 20060613
 US 20070129295 A1 20070607 US 2007-581172 20070206
 PRIORITY APPLN. INFO.: EP 2003-104925 A 20031222
 WO 2004-EP14347 W 20041216

AB The invention provides a method for purifying recombinant human FSH or an FSH variant, comprising the steps: (1) ion exchange chromatog.; (2) immobilized metal ion chromatog.; (3) hydrophobic interaction chromatog. which may be carried out in any order.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 MEDLINE on STN DUPLICATE 1
 ACCESSION NUMBER: 2004077010 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 14965762
 TITLE: Hyperexpression and purification of biologically active human luteinizing hormone and human chorionic gonadotropin using the methylotropic yeast, *Pichia pastoris*.
 AUTHOR: Gadkari Rupali; Deshpande Rahul; Dighe Rajan R
 CORPORATE SOURCE: Molecular Reproduction, Development and Genetics, Indian Institute of Science, Bangalore 560012, India.
 SOURCE: Protein expression and purification, (2003 Dec) Vol. 32, No. 2, pp. 175-84.
 Journal code: 9101496. ISSN: 1046-5928.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 (RESEARCH SUPPORT, NON-U.S. GOV'T)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 200404
 ENTRY DATE: Entered STN: 18 Feb 2004
 Last Updated on STN: 16 Apr 2004
 Entered Medline: 15 Apr 2004

AB The glycoprotein hormones, luteinizing hormone (LH), human chorionic gonadotropin (hCG), thyroid stimulating hormone (TSH), and follicle stimulating hormone (FSH), play important roles in overall physiology and reproduction. These hormones are heterodimeric molecules consisting of an identical alpha subunit non-covalently associated with the hormone-specific beta subunit. The inherent structural intricacies possessed by these hormones make them very interesting model systems for structure-function relationship studies

of complex dimeric glycoproteins. The structural studies, as well as, the therapeutic applications require large quantities of biologically active hormones free of any contaminants. In this study, we report hyperexpression and purification of biologically active recombinant hLH and hCG expressed using *Pichia pastoris* expression system. A combination of hydrophobic interaction chromatography and ion exchange chromatography has been used to purify these recombinant hormones to homogeneity. Using a number of biochemical and immunological criteria, the recombinant hormones have been shown to be similar to the natural hormones and were equally biologically active. The preliminary data also suggested that *P. pastoris* cells express a low molecular weight isoform of hCG that appeared to be less glycosylated. This isoform exhibited lesser affinity for the receptor as compared to hCG, but was found to be fully biologically active.

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	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.64	-1.64

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